

Anti-DPYD Antibody Picoband®

Catalog Number: A01749

About DPYD

DPYD (Dihydropyrimidine Dehydrogenase), also called DPD, is an enzyme that in humans is encoded by the DPYD gene. The protein encoded by this gene is a pyrimidine catabolic enzyme and the initial and rate-limiting factor in the pathway of uracil and thymidine catabolism. The structure of the DPYD gene contains 23 exons spanning about 950 kb. Using somatic cell hybrid strategies, the DPYD gene is mapped to the centromeric region of chromosome 1 between 1p22 and 1q21. By fluorescence in situ hybridization, the DPYD gene is mapped to 1p22. The highest level of DPD was found in monocytes followed by that in lymphocytes, granulocytes, and platelets, whereas no significant activity of DPD could be detected in erythrocytes. The activity of DPD in peripheral blood mononuclear cells was intermediate between that observed in monocytes and lymphocytes. By cDNA microarray, Western blot analysis, and luciferase reporter assay, the transcription factor LSF was identified as a positive regulator of DPYD.

Overview

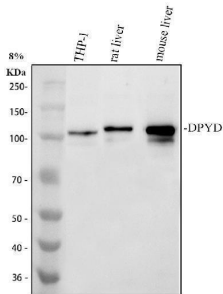
Product Name	Anti-DPYD Antibody Picoband®
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-DPYD Antibody Picoband® catalog # A01749. Tested in ELISA, WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Application	ELISA, WB
Clonality	Polyclonal
Formulation	Each vial contains 4 mg Trehalose, 0.9 mg NaCl and 0.2 mg Na ₂ HPO ₄ .
Storage Instructions	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	Q12882

Technical Details

Immunogen	E. coli-derived human DPYD recombinant protein (Position: A356-Y511).
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Rabbit IgG

Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Suggested Dilutions	Western blot, 0.1-0.5ug/ml, Human, Mouse, Rat ELISA, 0.1-0.5ug/ml

Anti-DPYD Antibody Picoband® (A01749) Images



Western blot analysis of DPYD using anti-DPYD antibody (A01749). Electrophoresis was performed on a 8% SDS-PAGE gel at 80V (Stacking gel) / 120V (Resolving gel) for 2 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human THP-1 whole cell lysates, Lane 2: rat liver tissue lysates, Lane 3: mouse liver tissue lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-DPYD antigen affinity purified polyclonal antibody (A01749) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054) at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an ECL Plus Western Blotting Substrate (Catalog # AR1196-200) with Tanon 5200 system. A specific band was detected for DPYD at approximately 111 kDa. The expected band size for DPYD is at 111 kDa.

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Anti-DPYD Antibody

For Research Use Only. Not for use in diagnostic procedures.